

MARINE CORPS WARFIGHTING LABORATORY

The **Joint High Speed Vessel (JHSV)** is a transformational technology that fills a critical capability gap in the family of sea base connectors. Marine Corps experimentation is focused on evolving the concept of JHSVs as a component of the networked sea base.

Background:

Since October 2001, the Marine Corps and Navy have been conducting concept based experiments with JHSVs in order to assess their capabilities and limitations within the context of Seabasing and Operational Maneuver from the Sea (OMFTS). Joint experiments are exploring commercially available high-speed, shallow draft vessels with advanced hull, propulsion, and communications technologies. Currently there are four (4) vessels under lease by the Army, Navy and Marine Corps in support of experimentation. They are the HSV-2 Swift (USMC/USN), TSV-1X Spearhead (US Army), HSV-X1 Joint Venture (USN), and WestPac Express (USMC).

Concept of Experimentation:

Experimentation will explore the concepts, capabilities, and military utility associated with high-speed, shallow-draft intra-theater vessels that are integrated with advanced hulls, propulsion technologies, and innovative communications. As an intra-theater surface connector the JHSV is a transformational technology that fills a critical capability gap in the family of sea base connectors by linking advanced bases, sea bases, and forces operating ashore. JHSV's will play a crucial role as an operational maneuver platform that can rapidly project forces and sustainment in support of the Global War on Terror (GWOT) and Theater Security Cooperation (TSC) objectives. The evaluation of all data collected from previous and future experimentation will be used to support the Expeditionary Force Development process, and refine potential missions for future Joint High Speed Vessels (JHSV).

Deliverable Product:

A definitive USMC requirement and CONOPS in order to transition via Navy as a joint program with the Army TSV (Theater Support Vessel) program.

Joint High Speed Vessel fact sheet



Capability:

Vessel Length:	98 meters (321 feet)
Vessel Beam:	27 meters (89 feet)
Maximum Sustained Speed:	38 knots (max payload) 45 knots with no payload
Draft (max payload):	11 feet, 4 inches
Range (no payload)	4000 NM @ 20 knots 2400 NM @ 35 knots
Range (with max payload):	1100 NM @ 35 knots
Payload (embarked cargo):	630 Short Tons 23,000 Sqft
Seating (Embarked Force):	128 Airline seats
Berthing (Embarked Force):	75 Temporary berths 98 Permanent berths 173 Troop berths
Crew:	40-45 crew (male/female)
Messing	42 seat capacity
Flight Deck Certification	SH60, MH60, UH60, CH46, AH1W, UH1N
1-Landing Spot, 2-Hanger Spots	

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